

CAREER PATHWAYS



Mohonasen High School
School-to-Careers

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Mohonasen High School
Schenectady, NY 12303*

Mohonasen High School

School-to-Careers

Career Pathways

- Advertising Design & Production
- Business Adm./Mgmt.
- CADD Tech-Prep
- Early Childhood Ed.
- Electrical Technology
- Materials Processing
- Medical Technology
- Pre-Engineering

Guidance Career Services

- Career Assessment
- Career Portfolios
- Guidance Notes
- Volunteer Service Program

Career Exploration Internship Program

75+ Student Interns
in Diverse Placements:

- Architecture
- Computer Technology
- Elementary Education
- Engineering
- Nursing
- Pharmacy
- Animal Science
- Many more

VOTEC

- Culinary Arts
 - Auto Mechanics
 - Cosmetology
 - Visions
 - Many more
-

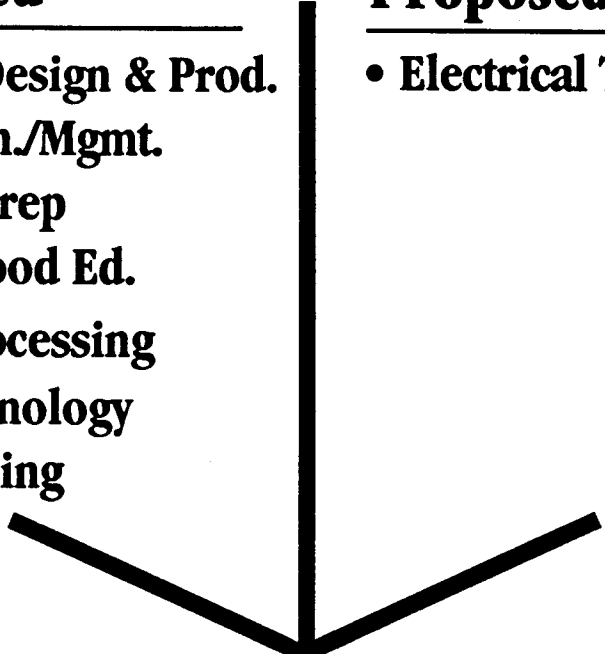
Mohonasen High School
School-to-Careers
Career Pathways

Implemented

- Advertising Design & Prod.
- Business Adm./Mgmt.
- CADD Tech-Prep
- Early Childhood Ed.
- Materials Processing
- Medical Technology
- Pre-Engineering

Proposed for 1998-99

- Electrical Technology



**CEIP Internships
and/or
Related Cooperative Work Experience**

Career Major

✓ INTEGRATES...

- Occupational and academic learning
- Work-based and school-based learning
- Established linkages between secondary and post-secondary schools

✓ PREPARES...

- Students for employment
- In broad occupational or industry sectors

✓ INCLUDES...

- Two years of secondary school
- 1-2 years of post-secondary school or
- Registered apprenticeship program

✓ LEADS TO...

- High school diploma
- Post-secondary degree
- Skills certificate

***NEW YORK STATE'S
CAREER MAJORS***

***MOHONASEN'S
CAREER PATHWAYS***

- **ARTS/HUMANITIES**

→ **ADVERTISING DESIGN &
PRODUCTION**

- **BUSINESS/INFORMATION
SYSTEMS**

→ **BUSINESS ADMINISTRATION /
MANAGEMENT**

- **ENGINEERING/TECHNOLOGIES**

→ **CADD TECH-PREP**

→ **ELECTRICAL TECHNOLOGY**

→ **MATERIALS PROCESSING**

→ **PRE-ENGINEERING**

- **HEALTH SERVICES**

→ **MEDICAL TECHNOLOGY**

- **HUMAN & PUBLIC SERVICES**

→ **EARLY CHILDHOOD
EDUCATION**

- **NATURAL & AGRICULTURAL
SCIENCES**

CAREER PATHWAYS

ADVERTISING DESIGN & PRODUCTION

Advertising attracts buyers for products and services and represents a wide variety of positions which include planning, researching, creating, producing and placing ads for clients who make or have products or services to sell. Advertising employees appeal through newspaper and magazine ads, radio and television commercials, and outdoor displays such as billboards and murals.

BUSINESS ADMINISTRATION & MANAGEMENT

Business managers plan, organize, direct and coordinate the operation of firms in business and industry, including the larger industries of banking, education, health care and business services. All types of businesses have management teams to formulate policies and administer the firm's operations.

CADD TECH PREP

Students will learn basic technical and architectural drawing principles. Students will learn the ever-changing computer-aided design and drawing software [i.e. CADKey 7; AutoCAD] and be well prepared for college-level, industry-related experiences.

EARLY CHILDHOOD EDUCATION

Child care employees, teachers and directors care for children who attend day care centers for parents who work or care for children housed in various kinds of institutions funded by private or public organizations. It is also a career pathway for students interested in pursuing a teaching career in elementary education.

ELECTRICAL TECHNOLOGY

This new career pathway will introduce students to the home/industrial electrical and electronic environments and opportunities. Through experimentation, construction, and problem-solving based instruction, students will explore basic elements common to all technological systems.

MATERIALS PROCESSING

This career pathway offers students an opportunity to learn how to use high-tech machines and tools applicable to the fundamentals of manufacturing. Materials Processing provides a seamless pathway to HVCC and to manufacturing companies.

MEDICAL TECHNOLOGY

Medical technologists, also called clinical laboratory technologists, are health professionals whose jobs include many health care roles. They perform laboratory tests essential to the detection, diagnosis, and treatment of disease. They work under the direction of specialists in the biological sciences. This is a career pathway for students interested in pursuing a career in any of the health sciences.

PRE-ENGINEERING

Mohonasen is one of the lead schools in the Project Lead the Way statewide initiative for systemic coursework that can lead to engineering-related college and career opportunities.

ADVERTISING DESIGN & PRODUCTION

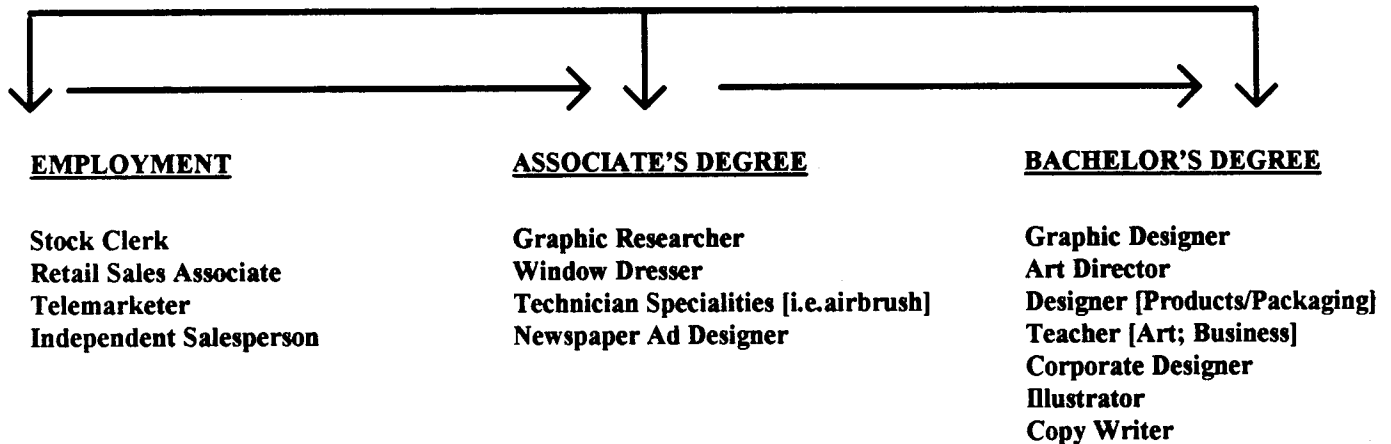
Career Pathway

5-UNIT SEQUENCE

	<u>UNITS</u>
Careers and Technology I-----	1/2
Introduction to Career Majors-----	1/2
Principles of Marketing-----	1
Business Ownership & Marketing-----	1
Drawing & Painting in [Prerequisite: Studio in Art]-----	1
Advertising and the Design [Prerequisite: Studio in Art]-----	1
+ 5 Hours of Work-Related Learning	

ADDITIONAL CAREER MAJOR ENHANCEMENTS

Word Processing I-----	1/2
Business Law-----	1
Keyboarding or Keyboarding for Personal Use-----	1/2
Advanced Art-----	1
3-D Design-----	1
CEIP Internship [108 hours of nonpaid career internship]-----	1
Cooperative Work Experience [300 hours of paid career experience]-----	1



PARTNERSHIP AGREEMENTS

<u>COLLEGE</u>	<u>ADVANCED COLLEGE CREDITS EARNED</u>	<u>PROGRAM</u>
Mohawk Valley CC	-----	Advertising Design & Prod.
Sage Jr. College of Albany	-----	Marketing & Management
	-----	Fine Arts/Studio Studies
Bryant & Stratton	Pending	Marketing & Sales

Advertising Design and Production Pathway *Sample Schedule*

9th Grade

Required Core

English
Global Studies
Math
Science
Phys. Ed.

Pathway Courses

Studio Art (prerequisite for other arts)
Careers and Technology I (Required Core)
Intro to Career Majors (Required Core)

Recommended

Foreign Language

6.5 - 7.5 credits*

10th Grade

Required Core

English
Global Studies
Math
Science
Phys. Ed.
Health

Pathway Courses

Drawing and Painting (Required Core)
Principles of Marketing (Required Core)

Recommended

Foreign Language

6.5 - 7.5 credits*

11th Grade

Required Core

English
U.S History
Math
Science
Phys. Ed.

Pathway Courses

Advertising and the Design (Required Core)
Business Ownership and Marketing (Required Core)
Keyboarding (Enhancement)
5 Hours of Work Based Learning (Required Core))

Recommended

Foreign Language

6.5 - 7.5 credits*

12th Grade

Required Core

English
Economics/Part. in Gov't.
Phys. Ed.

Pathway Courses

Advanced Art (Enhancement)
3-D Design (Enhancement)
Word Processing (Enhancement)
CEIP and/or Coop. Work Experience (Enhancement)
Business Law (Enhancement)

Recommended

Foreign Language

Math

Science

6.5 - 7.5 credits*

* It is important that the student know if he/she wants to follow this pathway early so, during scheduling, the need to take 7.5 credits for two years (if taking a Foreign Language also) can be taken into account.

** This is a recommended schedule produced by the instructors of the pathway, some pathway courses may be taken in alternate years. Please see your counselor with any questions.

BUSINESS ADMINISTRATION/MANAGEMENT

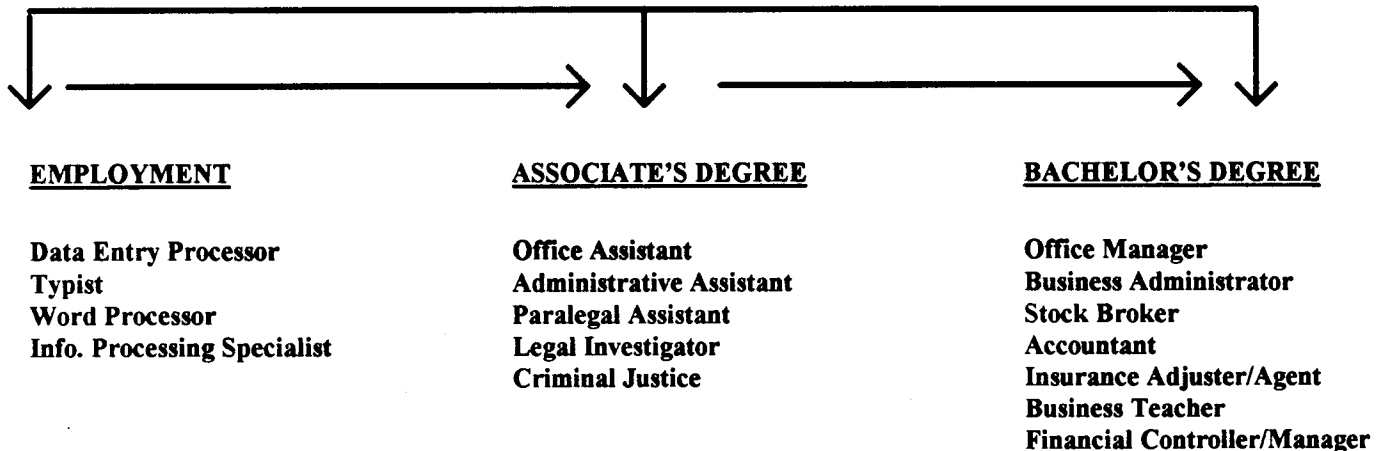
Career Pathway

5-UNIT SEQUENCE

	<u>UNITS</u>
Careers and Technology I-----	1/2
Introduction to Career Majors-----	1/2
Keyboarding or Keyboarding for Personal Use-----	1/2
Business Law-----	1
Accounting I-----	1
Business Analysis/Business Computer Applications-----	1
Personal Business Management-----	1/2
+ 5 Hours of Work-Related Learning	

ADDITIONAL CAREER MAJOR ENHANCEMENTS

Word Processing I-----	1/2
College Accounting I-----	1
Principles of Marketing-----	1
CEIP Internship [108 hours of nonpaid career internship]-----	1
Cooperative Work Experience [300 hours of paid career experience]-----	1



PARTNERSHIP AGREEMENTS

<u>COLLEGE</u>	<u>ADVANCED COLLEGE CREDITS EARNED</u>	<u>PROGRAM</u>
SUNY Cobleskill	-----	-----
SCCC	-----	-----
Bryant & Stratton	3 - 15 Credits	Business

Business Administration/Management Career Pathway

Sample Schedule

9th Grade

Required Core

English
Global Studies
Math
Science
Phys. Ed.

Pathway Courses for Bus. Adm./Mgt

Careers and Technology I (Required Core)
Keybdg. for Pers. Use (Required Core)
Word Processing I (Enhancement)

Recommended

Foreign Language

7.0 credits

10th Grade

Required Core

English
Global Studies
Math
Science
Phys. Ed.

Health

Pathway Courses for Bus. Adm./Mgt

Intro. to Career Majors (Required Core)
Pers. Bus. Mgt. (Required Core)

Recommended

Foreign Language

7.0 credits*

11th Grade

Required Core

English
U.S History
Math
Science
Phys. Ed.

Pathway Courses for Bus. Adm./Mgt

Accounting I (Required Core)
Bus. Anal./ Bus. Comp. App. (Required Core)
5 Hours Work Related Learning (Required Core)
Prin. of Marketing (Enhancement)

Recommended

Foreign Language

6.5 – 7.5 credits*

12th Grade

Required Core

English
Economics/Part. in Gov't.
Phys. Ed.

Pathway Courses for Bus. Adm./Mgt

Business Law (Required Core)
College Accounting (Enhancement)
CEIP Internship (Enhancement)
Co-op Work Experience (Enhancement)

Recommended

Math

Science

Foreign Language

6.5 - 7.5 credits

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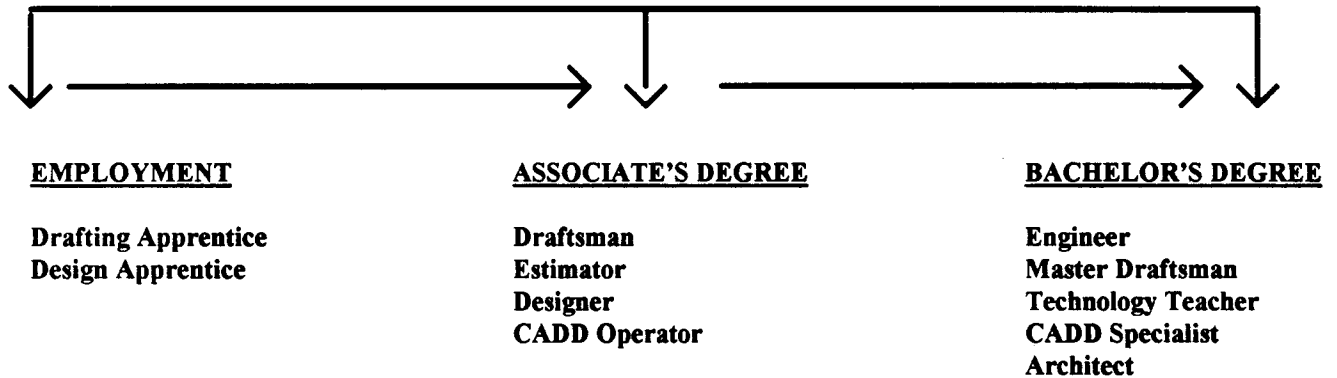
CADD TECH-PREP
Career Pathway

5-UNIT SEQUENCE

	<u>UNITS</u>
Careers and Technology I-----	1/2
Technical Drawing I-----	1/2
Architectural Drawing I-----	1/2
CADD I-----	1/2
CADD II-----	1/2
Systems Course [Productions, Transportation or Communications]-----	1/2
Technical Drawing II or Architectural Drawing II-----	1
Technical Drawing III -----	1
+ 5 Hours of Work-Related Learning	

ADDITIONAL CAREER MAJOR ENHANCEMENTS

Introduction to Career Majors-----	1/2
Computer Applications-----	1/2
Computer-Aided Manufacturing [CAM]-----	1/2
Technology Electives-----	1/2
CEIP Internship [108 hours of nonpaid career internship]-----	1
Cooperative Work Experience [300 hours of paid career experience]-----	1



PARTNERSHIP AGREEMENTS

<u>COLLEGE</u>	<u>ADVANCED COLLEGE CREDITS EARNED</u>	<u>PROGRAM</u>
Delhi Technology CC	3 - 15 Credits	Drafting Architectural
HVCC	-----	-----
SCCC	3 - 6 Credits	Drafting
SUNY Cobleskill	Pending	-----

Computer Aided Design and Drafting Career Pathway *Sample Schedule*

9th Grade

Required Core

English
Global Studies
Math
Science
Phys. Ed.

Pathway Courses for CADD

Tech. Drawing I and Arch. Drawing I (Required Core)
Careers and Technology I (Required Core)

Recommended

Foreign Language
6.5 - 7.0 credits

10th Grade

Required Core

English
Global Studies
Math
Science
Phys. Ed.
Health

Pathway Courses for CADD

CADD I and CADD II (Required Core)
Computer Applications (Enhancement)

Recommended

Foreign Language
6.5 - 7.5 credits*

11th Grade

Required Core

English
U.S History
Math
Science
Phys. Ed.

Pathway Courses for CADD

Tech. Drawing II or Arch Drawing II (Required Core)
Production Systems (Required Core)
Computer Aided Manufacturing (Enhancement)

Recommended

Foreign Language
6.5 - 7.0 credits

12th Grade

Required Core

English
Economics/Part. in Gov't.
Math
Science
Phys. Ed.

Pathway Courses for CADD

Technical Drawing III (Required Core)
CEIP and/or Coop. Work Experience (Enhancement)
Introduction to Career Majors (Enhancement)

Recommended

Foreign Language
6.5 - 7.0 credits

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EARLY CHILDHOOD EDUCATION

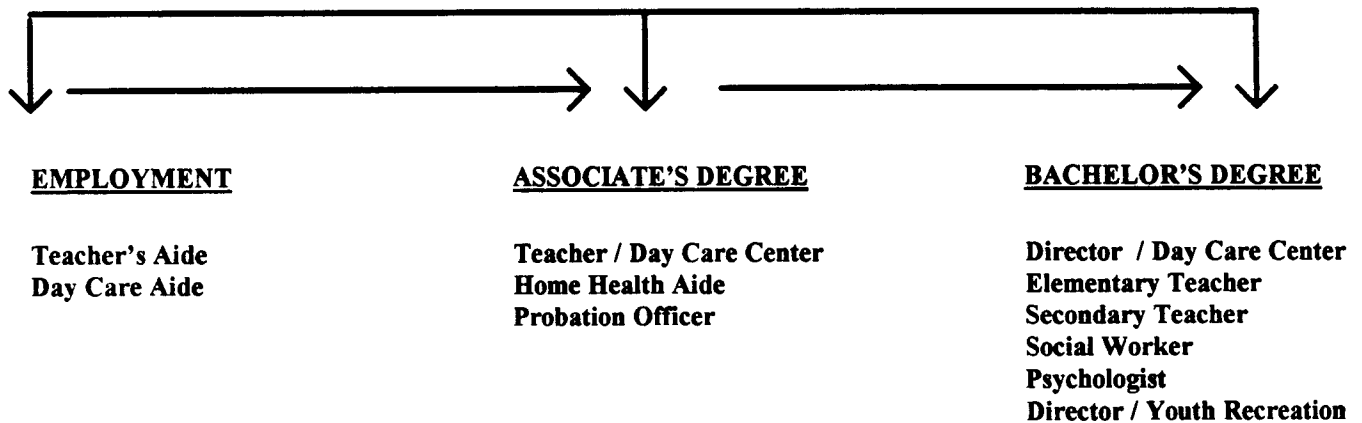
Career Pathway

5-UNIT SEQUENCE

	<u>UNITS</u>
Careers and Technology I-----	1/2
Food and Nutrition-----	1/2
Child Development I-----	1/2
Child Development II-----	1/2
Human Development-----	1/2
Early Childhood Education-----	1/2
Family Dynamics-----	1/2
Parenting-----	1/2
Child Care CEIP Internship [108 hours of nonpaid career internship]----	1

ADDITIONAL CAREER MAJOR ENHANCEMENTS

Introduction to Career Majors-----	1/2
Child Care Cooperative Work Experience----- [300 hours of paid career experience]	1



PARTNERSHIP AGREEMENTS

<u>COLLEGE</u>	<u>ADVANCED COLLEGE CREDITS EARNED</u>	<u>PROGRAM</u>
SUNY Cobleskill	Pending	Early Childhood
SCCC	3 - 9 Credits	Early Childhood
Sage Jr. College of Albany	-----	-----

Early Childhood Education Career Pathway *Sample Schedule*

9th Grade

Required Core

English
Global Studies
Math
Science
Phys. Ed.

Pathway Courses for Early Child. Ed.

Careers and Technology I (Required Core)
Cloth. Tex./ Hous. Env. (Satisfies Art Req.)

Recommended

Foreign Language

7.0 credits

11th Grade

Required Core

English
U.S History
Math
Science
Phys. Ed.

Pathway Courses for Early Child. Ed.

Child Development II (Required Core)
Early Childhood Education (Required Core)
Child Care CEIP Internship (Required Core)

Recommended

Foreign Language

7.5 credits*

10th Grade

Required Core

English
Global Studies
Math
Science
Phys. Ed.

Health

Pathway Courses for Early Child. Ed.

Child Development (Required Core)
Human Development (Required Core)
Intro. to Career Major (Enhancement)

Recommended

Foreign Language

7.5 credits*

12th Grade

Required Core

English
Economics/Participation in Gov't.
Phys. Ed.

Pathway Courses for Early Child. Ed.

Food and Nutrition (Required Core)
Family Dynamics (Required Core)
Parenting (Required Core)
Child Care Co-Op Work Exp. (Enhancement)

Recommended

Math

Science

Foreign Language

7.0 - 8.0 credits

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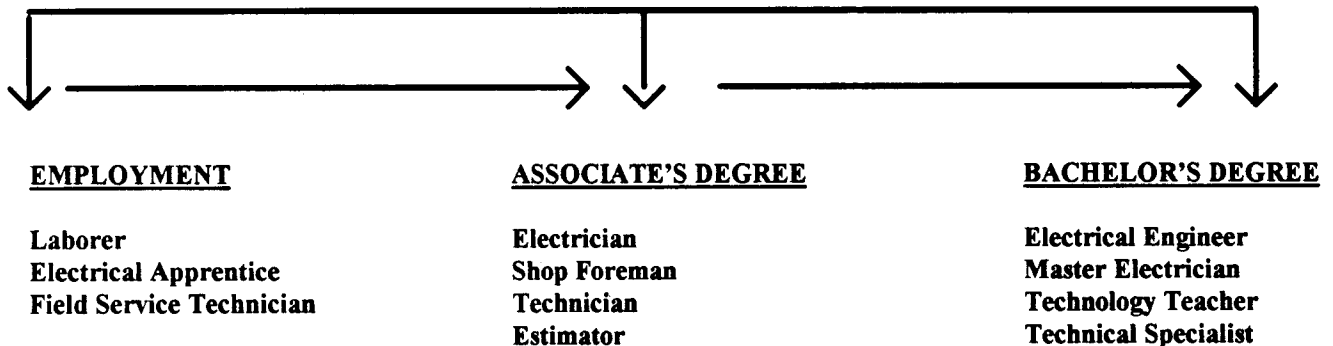
ELECTRICAL TECHNOLOGY
Career Pathway

5-UNIT SEQUENCE

	<u>UNITS</u>
Careers and Technology I-----	1/2
Drawing & Design for Production or Intro. to Engineering Design---	1
Production Systems-----	1/2
Basic Electricity/Electronics-----	1/2
Computer-Aided Manufacturing [CAM]-----	1/2
Computer Applications-----	1/2
Technology Elective-----	1/2
Digital Electronics-----	1
+ 5 Hours of Work-Related Learning	

ADDITIONAL CAREER MAJOR ENHANCEMENTS

Communications Systems-----	1/2
Principles of Engineering-----	1
Introduction to Career Majors-----	1/2
Technology Electives-----	1/2 - 1
CEIP Internship [108 hours of nonpaid career internship]-----	1
Cooperative Work Experience [300 hours of paid career experience]----	1



PARTNERSHIP AGREEMENTS

<u>COLLEGE</u>	<u>ADVANCED COLLEGE CREDITS EARNED</u>	<u>PROGRAM</u>
HVCC SCCC	----- 3 - 9 Credits	----- Electrical Technology

Electrical Technology Career Pathway Sample Schedule

9th Grade

Required Core

English
Global Studies
Math
Science
Phys. Ed.

Pathway Courses for Electrical Tech.

Design and Drawing for Production (Required Core)

Recommended

Foreign Language

6.5 credits

11th Grade

Required Core

English
U.S History
Math
Science
Phys. Ed

Pathway Courses for Electrical Tech.

Computer Applications (Required Core)
Production Systems (Required Core)
Technology Elective (Required Core)
5 Hours of Work Related Learning (Required Core)

Recommended

Foreign Language

7.0 credits*

10th Grade

Required Core

English
Global Studies
Math
Science
Health
Phys. Ed.

Pathway Courses for Electrical Tech.

Basic Electricity/Electronics (Required Core)
Careers and Technology I (Required Core)

Recommended

Foreign Language

7.0 – 7.5 credits*

12th Grade

Required Core

English
Economics and Part. in Gov't.
Math
Science
Phys. Ed.

Pathway Courses for Electrical Tech.

Computer-Aided Manufact. (Required Core)
Digital Electronics (Required Core)
CEIP Internship (Enhancement)

Recommended

Foreign Language

6.5 - 7.0 credits

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MATERIALS PROCESSING

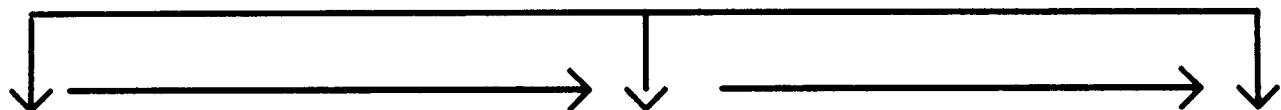
Career Pathway

5-UNIT SEQUENCE

	<u>UNITS</u>
Careers and Technology I-----	1/2
Technical Drawing I-----	1/2
Production Systems-----	1/2
Materials Processing I-----	1/2
Materials Processing II [Proposed for 1998-1999]-----	1
CADD I-----	1/2
Basic Electricity/Electronics-----	1/2
Computer Applications-----	1/2
Computer-Aided Manufacturing [CAM]-----	1/2
+ 5 Hours of Work-Related Learning	

ADDITIONAL CAREER MAJOR ENHANCEMENTS

Introduction to Career Majors-----	1/2
Drawing & Design for Production-----	1
CEIP Internship [108 hours of nonpaid career internship]-----	1
Cooperative Work Experience [300 hours of paid career experience]-----	1



EMPLOYMENT

Machine Shop
Lathe Operator
Milling Machine Operator

ASSOCIATE'S DEGREE

Tool Maker
Mold Maker
Machinist
Toll & Die Maker
CNC Operator

BACHELOR'S DEGREE

Materials Processing Engineer
Technology Teacher
Manufacturing Technology
Industrial Technology

PARTNERSHIP AGREEMENTS

COLLEGE

HVCC
SCCC

ADVANCED COLLEGE CREDITS EARNED

PROGRAM

Materials Processing
Electricity

Materials Processing Career Pathway

Sample Schedule

9th Grade

Required Core

English
Global Studies
Math
Science
Phys. Ed.

Pathway Courses for Materials Processing

Technical Drawing I (Required Core)
Computer Applications (Required Core)
Design and Drawing for Production (Enhancement)

Recommended

Foreign Language
6.5 - 7.5 credits

11th Grade

Required Core

English
U.S History
Math
Science
Phys. Ed.

Pathway Courses for Materials Processing

Materials Processing I (Required Core)
Basic Electricity/Electronics (Required Core)
Introduction to Career Majors (Enhancement)

Recommended

Foreign Language
6.5 - 7.0 credits

10th Grade

Required Core

English
Global Studies
Math
Science
Phys. Ed.
Health

Pathway Courses for Materials Processing

Careers and Technology I (Required Core)
CADD I (Required Core)
Production Systems (Required Core)

Recommended

Foreign Language
6.5 - 7.5 credits*

12th Grade

Required Core

English
Economics/Part. in Gov't.
Math
Phys. Ed.

Pathway Courses for Materials Processing

Materials Processing II (Required Core)
Computer Aided Manufacturing (Required Core)
CEIP and/or Coop. Work Experience (Enhancement)

Recommended

Science
Foreign Language
6.5 - 7.0 credits

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MEDICAL TECHNOLOGY

Career Pathway

4-UNIT SEQUENCE - PATH 1

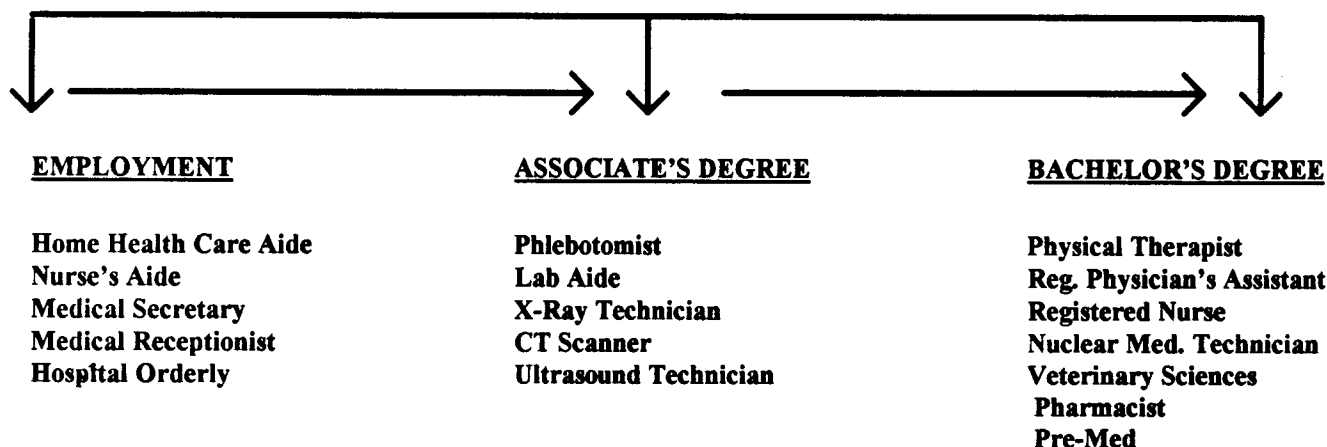
	<u>UNITS</u>
Bio Chemistry I-----	1
Bio Chemistry II-----	1
Medical Technology I-----	1
Medical Technology II-----	1
+ 5 Hours of Work-Related Learning	

4-UNIT OR 5-UNIT SEQUENCE / PATH 2

Biology-----	1
Chemistry-----	1
Medical Technology I-----	1
Medical Technology II and/or Anatomy and Physiology-----	1 or 2
+ 5 Hours of Work-Related Learning	

ADDITIONAL CAREER MAJOR ENHANCEMENTS

Chemistry-----	1
Physics-----	1
Earth Science-----	1
CEIP Internship [108 hours of nonpaid career internship]-----	1
Cooperative Work Experience [300 hours of paid career experience]----	



PARTNERSHIP AGREEMENTS

<u>COLLEGE</u>	<u>ADVANCED COLLEGE CREDITS EARNED</u>	<u>PROGRAM</u>
SUNY Cobleskill	-----	Medical Technology
HVCC	-----	Medical Technology
Union College	-----	-----

Medical -Technology Career Pathway

Sample Schedule

9th Grade

Required Core

English
Global Studies
Math
Science
Phys. Ed.
Foreign Language
Art/Music requirement
6.5 credits

10th Grade

Required Core

English
Global Studies
Math
Science
Phys. Ed.
Foreign Language
Health + elective
6.5 credits

**** In order to advance to Med.-Tech I , students MUST pass two units of science AND the Biology Regents Exam.***

11th Grade

Required Core

English
U.S History
Math
Med. Tech I (Required Core)
Phys. Ed.
Foreign Language
Elective
5 hours work-related learning
6.5 credits

12th Grade

Required Core

English
Economics/Part. in Gov't.
Math
Med. Tech II (Required Core)
Phys. Ed
Foreign Language
Elective (could be Anat. and Phys.)
5 hours of work-related learning and/or CEIP
6.5 credits

***** Note: Students interested in the Medical Technology Career Pathway must possess an advanced vocabulary and have a high level of articulation ability to be prepared for the Med. - Tech terminology.***

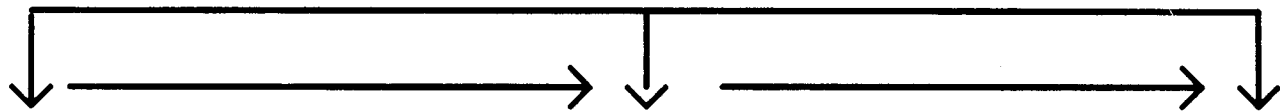
PRE-ENGINEERING
Career Pathway

5-UNIT SEQUENCE

	<u>UNITS</u>
Careers and Technology I-----	1/2
Drawing and Design for Production-----	1
CADD I-----	1/2
CADD II-----	1/2
Systems Course [Productions, Transportation or Communications]-----	1/2
Basic Electricity/Electronics-----	1/2
Computer-Aided Manufacturing [CAM]-----	1/2
Principles of Engineering [New for 1997-98]-----	1
+ 5 Hours of Work-Related Learning	

ADDITIONAL CAREER MAJOR ENHANCEMENTS

Materials Processing I-----	1/2
Technology Electives-----	1/2
CEIP Internship [108 hours of nonpaid career internship]-----	1
Cooperative Work Experience [300 hours of paid career experience]-----	1



EMPLOYMENT

Machine Apprentice
Electrical Apprentice
Field Service Technician

ASSOCIATE'S DEGREE

Industrial Control Technician
Research Technician
Computer Technician
Systems Technician
Testing Technician
Industrial Technician

BACHELOR'S DEGREE

Mechanical Engineer
Electrical Engineer
Process Engineer
Materials Engineer
Control Engineer
Power Engineer
Power Engineer

PARTNERSHIP AGREEMENTS

COLLEGE

HVCC
SCCC

ADVANCED COLLEGE CREDITS EARNED

3 - 6 Credits

PROGRAM

Digital

Pre-Engineering Career Pathway

Sample Schedule

9th Grade

Required Core

English
Global Studies
Math
Science
Foreign Language
Phys. Ed.

Pathway Courses for Pre-Engineering

Introduction to Engineering Design (Required Core)

6.5 credits

11th Grade

Required Core

English
U.S History
Math
Science
Phys. Ed

Pathway Courses for Pre-Engineering

Principals of Engineering (Required Core)
Design and Rapid Prototyping (Required Core)
5 Hours of Work Related Learning (Required Core)

Recommended

Foreign Language

7.5 credits*

10th Grade

Required Core

English
Global Studies
Math
Science
Foreign Language
Health
Phys. Ed.

Pathway Courses for Pre-Engineering

Digital Electronics (Required Core)
Careers and Technology I (Enhancement)

7.0 credits*

12th Grade

Required Core

English
Economics and Part. in Gov't.
Math
Science
Phys. Ed.

Pathway Courses for Pre-Engineering

Engineering Design and Dev. (Required Core)
Systems Course (Enhancement)
CEIP Internship (Enhancement)

Recommended

Foreign Language

6.5 - 7.5 credits

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***It is necessary for this student to receive a sequence in Foreign Language because Careers and Technology I and the systems course are only enhancements for this pathway, which does not satisfy graduation sequence requirements. This student has received one Foreign Language credit from the middle school.